



# USB to 16 Form C Relay Outputs

**Part:** 450U | **Model:** Seal/O-450U

The Seal/O-450U provides 16 SPDT Form C relays that can be easily controlled from your computer's USB port. Each relay output is rated for switching up to 60VDC @ 2A. The outputs are grouped in four-bit segments that each share a common for easy wiring. The Seal/O-450U is powered from your 9-30VDC source, or select from a variety of Sealevel power supply options.

Communicate with the Seal/O-450U using industry-standard Modbus RTU protocol or use the Sealevel SeaMAX API software libraries from your application program. Sealevel's SeaMAX software drivers and utilities make installation and operation easy using Microsoft Windows and Linux operating systems.

Expand your I/O network with Seal/O N-series products. Seal/O modules are available with Reed and Form C relays, optically isolated inputs, TTL interfaces, A/D and D/A functionality. Up to 246 additional expansion modules can be added using convenient pass-through connectors.

The Seal/O-450U integrates Sealevel's SeaLATCH locking USB port, which is fully compatible with standard USB cables. When used with the included USB cable with a SeaLATCH USB type B connector, the metal thumbscrew provides a secure connection to the device and prevents accidental cable disconnection.

Get a jump start on your digital I/O development with The Digital I/O Handbook that will provide helpful information that you will use again and again. Check out Chapter 1 for an overview of logic principles.

## Features & Specifications

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#### Features

- 16 SPDT Form C relays
- Removable screw terminals simplify field wiring
- Input power via terminal block or modular connector
- Sealevel's SeaLATCH locking USB port provides secure connection with SeaLATCH USB cables via metal thumbscrews
- DIN rail mount or table mount
- Includes 6' USB type A to SeaLATCH USB type B device cable (Item# CA356)
- Sealevel SeaMAX software supports Microsoft Windows and Linux operating systems

#### Specifications

<b>Family</b>	Seal/O
<b>Extended Temperature</b>	Call for Options
<b>Contact Current</b>	2A max.
<b>Contact Operate Time</b>	2ms max.
<b>Contact Release Time</b>	1ms max.
<b>Contact Voltage</b>	60VDC max.
<b>Digital I/O</b>	Form C Relay Outputs
<b>Dimensions</b>	7.5 (L) x 5.1 (W) x 1.3 (H)
<b>Contact Bounce Time</b>	7ms max.
<b>Host Interface(s)</b>	USB
<b>Humidity Range</b>	10 – 90% Relative Humidity, Non-Condensing
<b>Number of Inputs/Outputs</b>	16 Outputs
<b>Operating Temperature</b>	0°C to 70°C (32°F to 158°F)
<b># of Ports</b>	16
<b>Power Requirement</b>	9-30 VDC @ 4.0W
<b>RoHS Compliant</b>	Yes
<b>Storage Temperature</b>	-50°C to 105°C (-58°F to 221°F)
<b>USB Specification</b>	1.1 Compliant 2.0 Compatible